

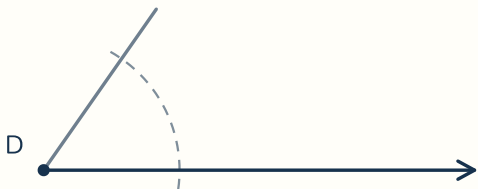
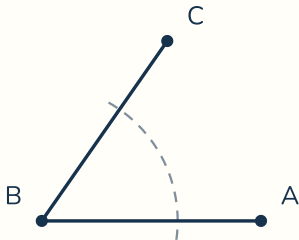
Compass constructions — Copy an angle

Name: _____

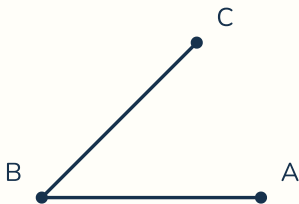
Date: _____

Copy each angle onto the ray beside it. Leave your arcs showing.

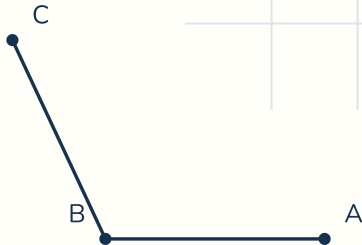
1 Copy angle ABC onto the ray from D.



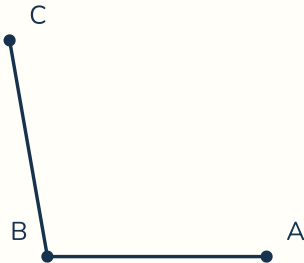
3 Copy angle ABC onto the ray from D.



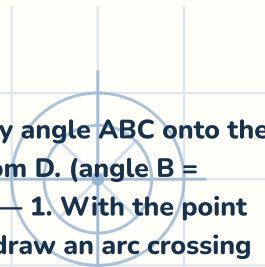
2 Copy angle ABC onto the ray from D.



4 Copy angle ABC onto the ray from D.



Compass constructions · Copy an angle — Answer key



1. Copy angle ABC onto the ray from D. (angle B = 55°)

— 1. With the point on B, draw an arc crossing both arms of the angle. 2. Keeping that opening, draw the same arc from D, crossing the ray. 3. Set the compass to the distance between the two crossings on the first arc. 4. Step that distance round from where the second arc meets the ray, and draw the arm through it.

2. Copy angle ABC onto the ray from D. (angle B = 115°)

— 1. With the point on B, draw an arc crossing both arms of the angle. 2. Keeping that opening, draw the same arc from D, crossing the ray. 3. Set the compass to the distance between the two crossings on the first arc. 4. Step that distance round from where the second arc meets the ray, and draw the arm through it.

3. Copy angle ABC onto the ray from D. (angle B = 45°)

— 1. With the point on B, draw an arc crossing both arms of the angle. 2. Keeping that opening, draw the same arc from D, crossing the ray. 3. Set the compass to the distance between the two crossings on the first arc. 4. Step that distance round from where the second arc meets the ray, and draw the arm through it.

4. Copy angle ABC onto the ray from D. (angle B = 100°)

— 1. With the point on B, draw an arc crossing both arms of the angle. 2. Keeping that opening, draw the same arc from D, crossing the ray. 3. Set the compass to the distance between the two crossings on the first arc. 4. Step that distance round from where the second arc meets the ray, and draw the arm through it.